

#16
1-30-02
RP

PATENT APPLICATION

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

John BOBO et al.

Group Art Unit: 1614

Application No.: 10/024,143

Filed: December 21, 2001

Docket No.: 108774

For: **BIOCOMPATIBLE POLYMERS AND ADHESIVES: COMPOSITIONS, METHODS OF MAKING AND USES RELATED THERETO**

INFORMATION DISCLOSURE STATEMENT

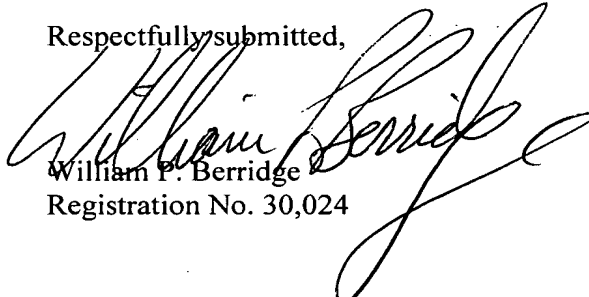
Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Most of the references are discussed in the present application. Others relate to cyanoacrylate-related compounds.

Respectfully submitted,


William P. Berridge
Registration No. 30,024

WPB:amw

Date: April 26, 2002

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461
--

RECEIVED
APR 29 2002
TECH CENTER 1000 2900

Form PTO-1449
(REV. 8-83)

US Dept. of Commerce
PATENT & TRADEMARK OFFICE

ATTY DOCKET NO.
108774

APPLICATION NO.
10/024,143

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)



APPLICANT(S)
John S. BOBO et al.

FILING DATE
December 21, 2001

GROUP
1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	2,776,232	1/57	N. H. SHEARER, Jr. et al.		
	2,784,127	3/57	F. B. JOYNER et al.		
	3,527,841	9/70	T. H. WICKER, Jr. et al.		
	3,559,652	2/71	E. H. BANNITT et al.		
	3,654,239	4/72	J. M. MCINTIRE et al.		
	3,667,472	6/72	B. D. HALPERN		
	3,722,599	3/73	J. E. ROBERTSON et al.		
	3,759,264	9/73	H. W. COOVER, Jr. et al.		
	3,940,362	2/76	W. C. OVERHULTS		
	3,975,422	8/76	C. J. BUCK		
	3,995,641	12/76	R. L. KRONENTHAL et al.		
	4,003,942	1/77	C. J. BUCK		
	4,012,402	3/77	C. J. BUCK		
	4,038,345	7/77	D. J. O'SULLIVAN et al.		
	4,041,061	8/77	C. J. BUCK		
	4,127,382	11/78	R. S. PERRY		
	4,134,929	1/79	D. M. STOAKLEY et al.		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
0 220 030 A2 (EP 86307849.9)	4/87	Europe		
0 273 085 A1 (EP 86810614.7)	7/88	Europe		
0 411 893 A3	2/91	Europe		
0 506 242 A1	9/92	Europe		
WO 89/02468	3/89	PCT		
WO 89/07136	8/89	PCT		

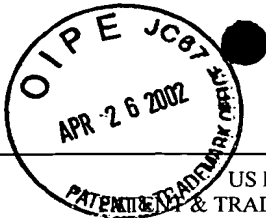
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

STN, Search Results, (40 pages) 2000.

EXAMINER

DATE CONSIDERED

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



RECEIVED
MAY 29 2002
TECH CENTER 160012900

Form PTO-1449
(REV. 8-83)

US Dept. of Commerce
PATENT & TRADEMARK OFFICE

ATTY DOCKET NO.
108774

APPLICATION NO.
10/024,143

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
John S. BOBO et al.

FILING DATE
December 21, 2001

GROUP
1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	4,415,732	11/83	M. H. CARUTHERS et al.		
	4,425,471	1/84	G. H. MILLET		
	4,444,933	4/84	P. S. COLUMBUS et al.		
	4,458,066	7/84	M. H. CARUTHERS et al.		
	4,469,863	9/84	P. O. TS'O et al.		
	4,507,433	3/85	P. S. MILLER et al.		
	4,582,648	4/86	E. HIRAKAWA		
	4,683,195	7/87	K. MULLIS et al.		
	4,711,955	12/87	D. C. WARD et al.		
	4,725,677	2/88	H. KOSTER et al.		
	4,741,337	5/88	C. R. SMITH et al.		
	4,757,055	7/88	P. S. MILLER et al.		
	4,828,979	5/89	L. KLEVAN et al.		
	4,868,116	9/89	J. R. MORGAN et al.		
	4,948,882	8/90	J. L. RUTH		
	4,973,679	11/90	M. H. CARUTHERS et al.		
	4,980,286	12/90	J. R. MORGAN et al.		
	4,980,460	12/90	D. MOLKO et al.		
	5,013,831	5/91	J. G. STAVRIANOPOULOS		
	5,091,557	2/92	K. NAGAI et al.		
	5,130,302	7/92	B. F. SPIELVOGEL et al.		
	5,151,510	9/92	W. J. STEC et al.		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
WO 89/05345	6/89	PCT		
WO 89/11486 (PCT/US89/02293)	11/89	PCT		
WO 90/15065 (PCT/US90/03138)	12/90	PCT		

EXAMINER

DATE CONSIDERED

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



TECH CENTER 1600/2900

APR 29 2002

RECEIVED

Sheet 3 of 7

Form PTO-1449
(REV. 8-83)

US Dept. of Commerce
PATENT & TRADEMARK OFFICE

ATTY DOCKET NO.
108774

APPLICATION NO.
10/024,143

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
John S. BOBO et al.

FILING DATE
December 21, 2001

GROUP
1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	5,166,320	11/92	G. Y. WU et al.		
	5,166,387	11/92	B. L. HIRSCHBEIN		
	5,175,337	12/92	H. MIKUNI et al.		
	5,183,885	2/93	B. J. BERGOT		
	5,190,922	5/93	J. R. LULY et al.		
	5,241,060	8/93	D. ENGELHARDT et al.		
	5,254,132	10/93	L. M. BARLEY et al.		
	5,256,765	10/93	K. W. LEONG		
	5,264,618	11/93	P. L. FELGNER et al.		
	5,283,185	2/94	R. M. EPAND et al.		
	5,306,490	4/94	L. V. BARLEY, JR.		
	5,321,131	6/94	S. AGRAWAL et al.		
	5,328,687	7/94	J. C. LEUNG et al.		
	5,334,761	8/94	G. GEBEYEHU et al.		
	5,405,950	4/95	G. A. MOCK et al.		
	5,407,801	4/95	P. S. MILLER et al.		
	5,414,077	5/95	K. LIN et al.		
	5,504,252	4/96	P. KLEMARCZYK		
	5,514,378	5/96	A. G. MIKOS et al.		
	5,518,730	5/96	R. C. FUISZ		
	5,550,172	8/96	D. W. REGULA et al.		
	5,580,565	12/96	P. J. TIGHE et al.		
	5,589,554	12/96	S. HIRAOKA		
	5,624,669	4/97	J. C. LEUNG et al.		

EXAMINER

DATE CONSIDERED

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



RECEIVED
APR 29 2002
TECH CENTER 1600/2900

Sheet 4 of 7

Form PTO-1449
(REV. 8-83)

US Dept. of Commerce
PATENT & TRADEMARK OFFICE

ATTY DOCKET NO.
108774

APPLICATION NO.
10/024,143

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
John S. BOBO et al.

FILING DATE
December 21, 2001

GROUP
1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	5,653,789	8/97	P. D. HENISE et al.		
	5,654,010	8/97	O. L. JOHNSON et al.		
	5,674,534	10/97	S. E. ZALE et al.		
	5,684,042	11/97	R. J. GREFF et al.		
	5,688,488	11/97	P. S. LOW et al.		
	5,711,968	1/98	M. A. TRACY et al.		
	5,716,594	2/98	D. R. ELMALAH et al.		
	5,721,277	2/98	P. C. TANG		
	5,725,568	3/98	R. N. HASTINGS		
	5,736,372	4/98	J. P. VACANTI et al.		
	5,759,830	6/98	J. P. VACANTI et al.		
	5,762,955	6/98	S. J. SMITH		
	5,770,193	6/98	J. P. VACANTI et al.		
	5,783,171	7/98	L. M. GUSTAVSON et al.		
	5,783,567	7/98	M. L. HEDLEY et al.		
	5,820,847	10/98	P. S. LOW et al.		
	5,900,245	5/99	A. S. SAWHNEY et al.		
	5,925,628	7/99	E. R. LEE et al.		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
WO 92/05186 (PCT/US91/06855)	4/92	PCT		
WO 92/06180	4/92	PCT		
WO 92/07573	5/92	PCT		
WO 92/19749	11/92	PCT		
WO 92/20316	11/92	PCT		
WO 92/20703 (PCT/EP92/01220)	11/92	PCT		
WO 92/22635	12/92	PCT		

EXAMINER

DATE CONSIDERED

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



TECH CENTER 1600/2800

APR 29 2002

RECEIVED

Sheet 5 of 7

Form PTO-1449
(REV. 8-83)U.S. Dept. of Commerce
PATENT & TRADEMARK OFFICEATTY DOCKET NO.
108774APPLICATION NO.
10/024,143

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
John S. BOBO et al.FILING DATE
December 21, 2001GROUP
1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	5,928,611	7/99	J. C. LEUNG		
	5,962,010	10/99	R. J. GREFF et al.		
	5,981,621	11/99	J. G. CLARK et al.		
	5,989,580	11/99	G. WALLACE et al.		
	6,010,714	1/00	J. C. LEUNG et al.		
	6,099,807	8/00	J. C. LEUNG et al.		
	6,143,805	11/00	T. HICKEY et al.		
	6,183,593 B1	2/01	U. NARANG et al.		
	6,217,603 B1	4/01	J. G. CLARK et al.		
	6,283,933 B1	9/01	K. R. D'ALESSIO et al.		
	6,352,704 B1	3/02	W. S. C. NICHOLSON et al.		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
WO 93/01286 (PCT/US92/05305)	1/93	PCT		
WO 93/04701	3/93	PCT		
WO 93/09222	5/93	PCT		
WO 93/25196	12/93	PCT		
WO 93/25234	12/93	PCT		
WO 94/04171	3/94	PCT		
WO 94/06920	3/94	PCT		
WO 94/11524	5/94	PCT		
WO 94/12650	6/94	PCT		
WO 94/24095	10/94	PCT		
WO 95/31560	11/95	PCT		

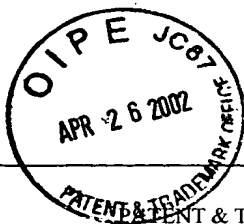
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

J-Surg-Res. 1989, Dec; 47(6); 48-92.

EXAMINER

DATE CONSIDERED

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



TECH CENTER 1600/2900

APR 29 2002

RECEIVED

Sheet 6 of 7

Form PTO-1449
(REV. 8-83)US Dept. of Commerce
PATENT & TRADEMARK OFFICEATTY DOCKET NO.
108774APPLICATION NO.
10/024,143

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
John S. BOBO et al.FILING DATE
December 21, 2001GROUP
1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	09/176,889	10/98	K. R. D'ALESSIO et al.		
	09/385,030	8/99	K. R. D'ALESSIO et al.		
	09/430,176	10/99	U. NARANG et al.		
	09/430,177	10/99	U. NARANG et al.		
	09/430,180	10/99	W. S.C. NICHOLSON et al.		
	09/430,289	10/99	K. R. D'ALESSIO et al.		
	09/430,290	10/99	K. R. D'ALESSIO et al.		

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
WO 96/29411	9/96	PCT		
WO 01/12243 A1	2/01	PCT		
WO 01/30408 A2	5/01	PCT		
WO 01/32319 A2	5/01	PCT		
WO 01/32795 A1	5/01	PCT		

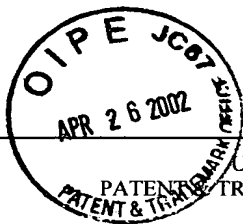
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Klin-Khir. 1989 (10): 1-3.
Sov-Med. 1990 (1): 23-4.
Ghosh et al., J. Med. Chem., 1992, 35, 4175-4179.
Klemarczyk, P., Polymer, 1997, 39, 173-181.
Vauthier et al., Proceed. Intern. Symp. Control. Rel. Bioact. Mater. 1995, 22, 592-593.
Tuncel et al., J. Biomed. Mater. Research 1995, 29, 721-728.
Peracchia et al., J. Biomed. Mater. Research 1997, 34, 317-326.
Hillery et al., J. Controlled Release 1996, 42, 65-73.
Brady et al., 1998, J. Med. Chem., 41:401-406.
Carre et al., 1998 Journal of Fluorescence, 8(1):53-57.
Domb et al., 1989 Macromolecules, 22:3200.
Holland et al., 1986, Controlled Release, 4:155-180.

EXAMINER

DATE CONSIDERED

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



TECH CENTER 1600/2900

APR 29 2002

RECEIVED

Sheet 7 of 7

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 108774		APPLICATION NO. 10/024,143	
				APPLICANT(S) John S. BOBO et al.			
				FILING DATE December 21, 2001		GROUP 1614	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)							
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
		Heller et al., 1990 Biodegradable Polymers as Drug Delivery Systems, Chasin, M. and Langer, R., Eds., Dekker, New York, 121-161.					
		Spilizewski et al., 1985, "The Effect of Hydrocortisone Loaded Poly(dl-lactide) Films on the Inflammatory Response", J. Control. Rel. 2:197-203.					
		Vacanti et al., "Selective Cell Transplantation Using Bioabsorbable Artificial Polymers as Matrices", J. Pediat. Surg. 23, 3-9 (1988).					
		Vacanti, "Beyond Transplantation", Arch. Surg. 123, 545-549 (1988).					
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							